

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : V.J. PAMENSKY CANADA INC.

Product line : W22 - Nema Super Premium Derating

Product code : 18427776

Frame	: L143/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: S1	Rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 3280 ft	Approx. weight ³	: 60.0 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1827 sq.ft.lb
Design	: A		

Output	1.5 HP (1.1 kW)		1.5 HP (1.1 kW)
Poles	4		4
Frequency	60 Hz		50 Hz
Rated voltage	230/460 V		380 V
Rated current	3.86/1.93 A		2.27 A
L. R. Amperes	34.0/17.0 A		15.4 A
LRC	8.8		6.8
No load current	2.20/1.10 A		1.05 A
Rated speed	1760 rpm		1450 rpm
Slip	2.22 %		3.33 %
Rated torque	4.41 ft.lb		5.36 ft.lb
Locked rotor torque	280 %		220 %
Pull up torque	235 %		185 %
Breakdown torque	340 %		250 %
Service factor	1.25		1.25
Temperature rise	80 K		80 K
Noise level ²	51.0 dB(A)		49.0 dB(A)
Locked rotor time (hot)	20 s		18 s
Locked rotor time (cold)	36 s		32 s
Efficiency (%)	50%	85.5	85.5
	75%	87.5	86.5
	100%	88.5	86.5
Power Factor	50%	0.62	0.69
	75%	0.74	0.79
	100%	0.81	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power			
Losses (%)	P1(0,9;1,0)	12.2	14.7
	P2(0,5;1,0)	9.9	11.9
	P3(0,25;1,0)	9.6	11.5
	P4(0,9;0,5)	6.9	8.3
	P5(0,5;0,5)	4.7	5.6
	P6(0,5;0,25)	3.5	4.2
	P7(0,25;0,25)	2.5	3.1

	Drive end	Non drive end	Foundation loads	
Bearing type	6205-ZZ	6204-ZZ	Max. traction	: 448 N
Lubrication interval	-	-	Max. compression	: 714 N
Lubricant amount	-	-	Load type	: -
Lubricant type	POLYUREA BASED GREASE		Load torque	: -
			Load inertia (J=GD ² /4)	: -

Notes
See notes on page 2.

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	farazq			1870468307	
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Notes

USABLE @208V 4.27A SF 1.15 SFA 4.91A

Customer information

CSA

For use on 60Hz

Class I, Div 2, Gr A, B, C, D, 1.15SF - T3

Class I, Zone 2, IIC, 1.15SF - T3

Class II, Div 2, Gr F, G - T5

For use on PWM: Gr. A, B, C, D, F, G,

VT 1000:1, CT 20:1, 1.00SF - T4A

Standards

Specification : MG1 - Part 10
Test : MG1 - Part 12
Noise : MG1 - Part 9

Vibration : MG1 - Part 7
Tolerance : MG1 - Part 12

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight, subject to be changed after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

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